SYMBOL	DESCRIPTION	ONE LINE OR ELEMENTARY DA.	PLAN	DESCRIPTION
³ ¤.	CEILING OUTLET AND INCANDESCENT OR H.I.D. TYPE LUMINAIRE "3" INDICATES BRANCH CIRCUIT NUMBER, "a" INDICATES CONTROLLING SWITCH	FRAME .		LOW VOLTAGE CIRCUIT BREAKER. THREE POLE LINLESS
3	CELLING FIXTURE. OUTLET AND FLUORESCENT LUMINAIRE, NOTATIONS SAME AS ABOVE.	TREP	[CB]	NOTED OTHERWISE COMBINATION MOTOR CIRCUIT PROTECTOR AND MAGNETIC
³₩a"	WALL OUTLET AND INCANDESCENT OR H.I.D. LIGHTING FIXTURE.	5	⊠*	COMBINATION MOTOR CIRCUIT PROTECTOR AND MAGNETIC MOTOR STARTER, FULL VOLTAGE NON-REVERSING UNLESS NOTED OTHERWISE: # FVR - FULL VOLTAGE REVERSING RAMP - REVERSING NOW TAKE MANABELEPISME
BU-1	EMERGENCY LIGHTING BATTERY UNIT WITH TWO LAMP HEADS	2 +	•	FFWR - PILL VOLTAGE REVERSING RIVAR - REDUCED VOLTAGE NON-REVERSING 251W - TWO SPEED, ONE WINDING 252W - TWO SPEED, TWO WINDING MARKERAL INDICATES STARTER SIZE IF OTHER THAN SIZE 1
••	REMOTE ADJUSTABLE EMERGENCY LAMP HEAD	/*	□,	NON-FUSIBLE DISCONNECT SMITCH, 600 VOLT, 3 POLE * AMPERE RATING NOTED IF OTHER THAN 30A
8	HID OR INCANDESCENT LUMINAIRE ON EMERGENCY CIRCUIT	i,		
-⊗+	WALL OUTLET AND EAST SIGN, DIRECTIONAL ARROWS AS NOTED SHORT DASH FOR EACH PHASE COMOUNTER, LONG DASH FOR NEUTRAL COMOUNTER, NO. 12 ANG, 3,74°C UNLESS OTHERWISE NOTED. EQUIPMENT CROWNING CONDUCTOR IS SHOWN. NOTE. DASH MARKS ARE OWNTERED FOR CROWNING CONSISTING OF 1921,6/18/26,3/4°C).	SWITCH	E [*]	FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE AMPERE RATING AND FUSE SIZE AS NOTED
		->-x-	\$ u OR <mark>✓</mark> R	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD HEATER "R" INDICATES RED RUNNING LIGHT
•	CONDUIT TURNING UP	ж.	T	TRANSFORMER, RATING AND CONNECTIONS AS NOTED
	CONDUIT TURNING DOWN	*⊱	_	CURRENT TRANSFORMER # QUANTITY AND CURRENT RATIO
	CONDUIT STUBBED OUT AND CAPPED	-3€ *	_	POTENTIAL TRANSFORMER # QUANTITY AND VOLTAGE RATIO
	CONDUIT RUN EXPOSED, (2/12/1/1/12G,3/4*C UNLESS OTHERWISE NOTED)	→ ⊶	_	LIGHTNING ARRESTER
	CONDUIT RUN CONCEALED, (2g/12, 1g/12G, 3/4°C UNLESS OTHERWISE NOTED) LIQUIDITIE FLEXIBLE CONDUIT		_	CAPACITOR
	· ·	+	<u> </u>	GROUND OR GROUND ROD FUSE, AMPERE RATING AS NOTED
	"1" FITTING IN CONDUIT	6	<u> </u>	MOTOR, NUMERAL INDICATES HORSEPOWER
— > ₽-1	HOMERUN TO LIGHTING PANEL LP-1 SHALL BE 1°C., 2012, 1912G. UNLESS OTHER WISE NOTED HOMERUN TO BATTERY UNIT BU-1	0	_	GENERATOR, RATINGS AND CONNECTIONS AS NOTED
—— > BU-1	HOMERUN TO BATTERY UNIT BU-1 SHALL BE Y-C., 2912, 1912G. UNLESS OTHER WISE NOTED HOMERUN TO MOTOR CONTROL CENTER MCC	_	-	TACHOMETER GENERATOR
——►MCC	HOMERUN TO MOTOR CONTROL CENTER MCC SHALL BE "C., 3/12, 1/1/26. UNLESS OTHER MISE NOTED		_	VOLTMETER WITH SWITCH, 3 PHASE # RANGE AS NOTED
J Q	JUNCTION BOX DISTRIBUTION PANELBOARD	-®-@ _*		AMMETER WITH SWITCH, 3 PHASE
	LIGHTING PANELBOARD		_	# RANGE AS NOTED METER — INDICATING/RECORDING TYPE
3/4°C	CONDUIT; SIZE AND FILL AS NOTED.			* WM — WATMETER WH — WATHOUR METER WHD — WATHOUR DEMAND METER PF — POWER FACTOR METER RT — RUNNING TIME METER
3/12,1/12G.	THREE (3) NO.12 AWG CONDUCTORS AND ONE (1) NO.12 EQUIPMENT GROUNDING CONDUCTOR			TRANSDUCER
1-7/C#14	GROUNDING CONDUCTOR MULTI-CONDUCTOR, JACKETED POWER OR CONTROL CABLE, NUMBER AND SIZE OF COME CONDUCTORS AS NOTED, QUANTITY AS NOTED IF MORE THAN ONE.			* AX - CURRENT TRANSDUCER WX - WATT TRANSDUCER WHX - WATT/WATTHOUR TRANSDUCER
		-@-	-	PROTECTIVE RELAY, NO. AS INDICATED: 27 — UNDERVOLTAGE RELAY 28 — BEARING PROTECTIVE DEVICE
1-2/C#16TS	SHIELD AND JACKET, CONDUCTOR SIZE AND QUANTITY AS NOTED			PROTECTIVE RELAT, RIU, AS ROUGHTED: 27 - UNDERPOLTAGE RELAT. 38 - BEARING PROTECTIVE DEVICE 42 - RUNNING GROUT REFAMER OR CONTACTOR 44 - REVERSE PHASE, OR PHASE BALANCE, CURRENT RELAY 47 - PHASE SEQUENCE VICTOR RELAY 48 - MACHINE OR HAMSFORMEN THERMAL RELAY 49 - MACHINE OR HAMSFORMEN THERMAL RELAY 50 - BECTANTAHEOUS ONECTRORENT, OR RATE-OF-RISE
\$ ₀	SINGLE POLE SWITCH, "a" INDICATES CONTROL OF LIGHTS "a" THREE WAY SWITCH, "a" INDICATES CONTROL OF LIGHTS "a"			49 — MACHINE OR TRANSFORMER THERMAL RELAY 50 — INSTANTANEOUS OVERCURRENT, OR RATE—OF—RISE RELAY
\$3 *Œ	DUPLEX RECEPTACE, 120V, 38 SMALE PHASE **C - MOUNTED ABOVE COUNTER TOP OF - GROUND FAULT INTERRIPTER TYPE WP - WEATHERPROOF 3 - BRANCH CIRCUIT NUMBER			RELAY SOO - INSTANTANEOUS GROUND RELAY, ZERO SEQUENCE 51 - AC TIME OVERCURRENT RELAY 51N- AC TIME OVERCURRENT RELAY , NEUTRAL GROUND 68 - LOCKING-OUT RELAY 68 - LOCKING-OUT RELAY 67 - DIFFERENTIAL PROTECTIVE RELAY
* ↔	SINGLE RECEPTACLE, 240V, 3W, SINGLE PHASE, AMPERE RATING AS NOTED	_	ď	UNIT HEATER — ELECTRIC HEATING COIL AND FAN
	TI LOGING TYPE WP - WEATHERPROOF SINGLE RECEPTACLE, 480V, 4W, THREE PHASE, AMPERE RATING AS NOTED IF OTHER THAN 20	_	<u> </u>	unit heater — Steam or water heating coil and fan
30 ⊘ −	IF OTHER THAN 20 * WP — WEATHERPROOF	K	_	KEY RESET STATION
(0)	DUPLEX RECEPTACLE AND FLOOR BOX	- 18 -		VOLTAGE OR CURRENT TEST BLOCK MECHANICAL CONNECTION OR INTERLOCK
ATB	ANALOG TERMINAL BOX PROVIDED BY DIVISION 11			CONDUCTORS OR CONDUITS OROSSING PATHS
DTB	DISCRETE TERMINAL BOX PROVIDED BY DIVISION 11			BUT NOT CONNECTED
PTB	POWER (480 VOLT) TERMINAL BOX PROVIDED BY DIVISION 11	<u> </u>	_	CONDUCTORS ELECTRICALLY CONNECTED
	TELEPHONE CABINET OR BACKBOARD AS SPECIFIED	L	_	INDICATES LIMITS OF EQUIPMENT OR WIRING ENCLOSURE
C	LIGHTING CONTACTOR, MECHANICALLY HELD TYPE	-ele-	_	PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN , NORMALLY CLOSED
H	ELECTRIC HEAT TRACE CONNECTION KIT REFER TO DETAIL		_	PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN NORMALLY OPEN
<u>@</u>	PHOTOCELL	<u>-eîe-</u>	ES	EMERGENCY STOP PUSHBUTTON WITH RED MUSHROOM HEAD OPERATOR , MAINTAINED CONTACT, PUSH-TO-STOP PULL TO RESET.
F	MANUAL FIRE ALARM STATION	- <u>alar</u> a	PB	START-STOP PUSHBUTTON CONTROL STATION
€ *	HEAT ACTUATED FIRE DETECTOR (* INDICATES TEMPERATURE RATING)	 	PBL	START-STOP PUSHBUTTON CONTROL STATION WITH LOCKOUT DEVICE ON STOP
©	SMOKE DETECTOR	<u>'</u>	(132)	
EKI	FIRE ALARM HORN	<u> →[+</u>	PBM	START-STOP PUSHBUTTON CONTROL STATION, MAINTAINED CONTACT WITH LOCKOUT DEVICE ON STOP
E ₹	SPRINGER FLOW ALARM SWITCH	^ ** (xo)	LR.	TWO POSITION SELECTOR SWITCH, MAINTAINED CONTACT
VSS	VALVE SUPERVISORY SWITCH	(ox)		* NAMEPLATE (A/B) LR - LOCAL/REMOTE
Ю	WEATHER PROOF HI-INTENSITY FIRE ALARM STROBE LIGHT	- 1 c*	HOA	THREE POSITION SELECTOR SWITCH, MAINTAINED CONTACT POSITION 1-CONTACT 2-CONTACT 3-CONTACT
DS	DOOR SWITCH	(x00)	LOR	A X 0 - X-CLOSED B 0 0 - 0-OPEN
ES	ELECTRIC DOOR STRIKE	(00X)	RSL	* NAMEPLATE (A/B/C)
●	SECURITY MOTION DETECTOR			HOA — HAND/OFF/AUTO LOR — LOCAL/OFF/REMOTE RSL — RAISE/STOP/LOWER
SSM	SOLID STATE METERING & PROTECTION MODULE			

ONE LINE OR ELEMENTARY DIA.	PLAN	DESCRIPTION	
	LS	LIQUID LEVEL (FLOAT) SWITCH NORMALLY OPEN, CLOSES ON RISING LEVEL	
~% −		NORMALLY CLOSED, OPENS ON RISING LEVEL	
	PS	PRESSURE OR VACUUM SWITCH	
⊸ [•−		NORMALLY OPEN, CLOSES ON LOW PRESSURE SET POINT	
<u>⊸₹</u>		NORMALLY CLOSED, OPENS ON RISING PRESSURE	
	O	TEMPERATURE ACTUATED SWITCH (THERMOSTAT) NORMALLY OPEN, CLOSES ON RISING TEMPERATURE	
⊸ 2		NORMALLY CLOSED, OPENS ON RISING TEMPERATURE	
	FS	FLOW SWITCH (AIR, WATER, ETC.)	
		NORMALLY OPEN, CLOSES ON INCREASED FLOW	
<u>⊸ړ</u> –		NORMALLY CLOSED, OPENS ON INCREASED FLOW	
	ZS	POSITION (LIMIT) SWITCH NORMALLY OPEN	
		NORMALLY OPEN — HELD CLOSED NORMALLY CLOSED	
-0-TO		NORMALLY CLOSED — HELD OPEN	
⊷ا ائہ	SV	SOLENOID OPERATED VALVE	
•¶[•	HTR	STRIP HEATER OR HEATING ELEMENT	
	SCV	SURGE CONTROL VALVE	
-® —	_	PILOT LIGHT, COLOR AS NOTED # R - RED - GREEN A - AMBER B - BLUE W - WHITE	
	_	PILOT LIGHT, PUSH TO TEST TYPE * COLOR AS NOTED ABOVE	
-• -	_	RELAY COIL, NUMBER AS INDICATED	
-0 -	_	MOTOR STARTER COIL, NUMBER AS INDICATED	
⊣ ⊢	_	CONTACT, NORMALLY OPEN (NO)	
— ਮ —	_	CONTACT, NORMALLY CLOSED (NC)	
–x−	_	OVERLOAD RELAY HEATER (OL)	
<u></u>	_	TIME DELAY RELAY, RANGE AS NOTED	
⊸ ~		NOTC - NORMALLY OPEN, TIMED CLOSE WHEN ENERGIZED	
<u>~√~</u>		NCTO - NORMALLY CLOSED, TIMED OPEN WHEN ENERGIZE	
→		NOTO - NORMALLY CLOSED, TIMED OPEN WHEN DE-ENERGIZE	
		NCTC - NORMALLY CLOSED, TIMED CLOSE WHEN DE-ENERGIZED	
RTD	_	RESISTANCE TEMPERATURE DETECTOR	
(MOV)	(- H	MOTOR OPERATED VALVE, SERIAL LOOP CONNECTED	
		FIELD INSTRUMENT, TAG NO. AS INDICATED	
		# - INDICATES LOOP NO. # - INDICATES INSTRUMENT TYPE	
		AE — ANALYZING ELEMENT (PH, ORP, DO, ETC.) AT — ANALYZING TRANSMITTER DT — DENSITY TRANSMITTER	
		FE — FLOW ELEMENT FS — FLOW SWITCH FT — FLOW TRANSMITTER	
		FT — FLOW TRANSMITTER FY — FLOW TRANSDUCER LE — LEVEL ELEMENT LS — LEVEL SWITCH	
		LT - LEVEL TRANSMITTER PDS - PRESSURE DIFFERENTIAL SWITCH PT - PRESSURE TRANSMITTER SI - SPEED INDICATOR	
		SI — SPEED INDICATOR TE — TEMPERATURE ELEMENT TS — TEMPERATURE SWITCH	
		- HOLGAES INSTRUMENT TYPE AE - AMALYZINE LEMENT (PH, ORP, DO, ETC.) AT - CHARLES AND	
_	DM	DAMPER MOTOR	
TYPE A	INDICATES THE	AT ALL LUMINAIRES WITHIN THE ROOM OR AREA I OTATION APPEARS SHALL BE TYPE "A" UNLESS OTED	
DAMP	OTHERWISE NOTED INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NISIA 12 CONSTRUCTION AND SUITABLE FOR USE IN A DAMP OR WET LOCATION		
WET	HOICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS MOTATION APPEARS SHALL BE OF WATERINGT OR RIBMA & CONSTRUCTION SUITABLE FOR USE IN A WET LOCATION, UNLESS MOTED OTHERWISE		
CORROSIVE	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 4X, CORROSION RESTANT CONSTRUCTION SUITABLE FOR USE IN A WET LOCATION, UNLESS NOTED OTHERWISE.		
CLASS 1, DIV. 1	NOICATES THAT ALL ELECTRICAL COLIPMENT AND INSTALLATION WITH THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL CONFORM TO N.E.C. REQUIREMENTS FOR THE HAZARDOUS AREA CLASSIFICATION SHOWN		



SYMBOL WHERE THERE IS A DETAIL

SUBTITLE **DETAIL** 1" = 1" E-5 SHEET NO. WHERE THERE IS A DETAIL

SYMBOL WHERE DETAIL IS DRAWN

DETAIL SYMBOL



SYMBOL WHERE THERE IS A DETAIL

SUBTITLE SECTION ² 1" = 1" SHEET NO. WHERE SECTION IS TAKEN

SYMBOL WHERE SECTION IS DRAWN SECTION SYMBOL

ABBREVIATIONS ALTERNATING CURRENT ABOVE FINISHED FLOOR ABOVE GRADE ALUMINUM AMPERE AUTOMATIC AUXILIARY CIRCUIT BREAKER CURRENT LIMITING FUSE CONTROL POWER TRANSFO CONTROL SWITCH DIRECT CURRENT DOOR INTERLOCK EMPTY CONDUIT ELEVATION ELECTRICALLY OPERATED FURNISHED BY OTHERS FIBER OPTIC FIBERGLASS REINFORCED POLYESTER GENERATOR CONTROL PANEL GROUND FAULT INTERRUPTER GALVANIZED RIGID STEEL INSTR INSTRUMENT INSTRUMENT
LIGHTNING ARRESTER
LIGHTNG PANEL
MOTOR CONTROL CENTER
MANUFACTURER
MULTIFUNCTION METER MTS NC MANUAL TRANSFER SWITCH NORMALLY CLOSED NORMALLY OPEN OR NUMBER NOT TO SCALE OVERLOAD POWER FACTOR CORRECTION CAPACITOR RACK SURGE CAPACITOR SECONDS OR SECONDARY SHIELDED OR SHEET SOLID NEUTRAL STAINLESS STEEL SOLENDID VALVE TIME DELAY ON CLOSING TELEPHONE
TIME DELAY ON OPENING TYPICAL VOLTS
VARIABLE FREQUENCY DRIVE
WIRE

NOTES:

EXPLOSION PROOF

- THIS IS A STANDARD LEGEND. SOME SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.
- 2. THE WIRING DIAGRAMS, QUANTITY AND SIZES OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUS BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS
- 3. SWITCHGEAR AND MCC COMPARTMENT DESIGNATIONS AS INDICATED BELOW:

BLANK: NOT INTENDED FOR USE. PLATE ONLY

SPACE: CONTAINS NECESSARY BUS AND HARDWARE FOR FUTURE ADDITION OF BREAKERS OR STARTERS WITHIN SIZE RANGE SHOWN

SPARE: CONTAINS A COMPLETE BREAKER OR STARTER INSTALLED, SIZE AS

INDICATED FOR FUTURE USE

ELECTRICAL LEGEND

PEMACO SUPERFUND SITE 5050 EAST SLAUSON AVENUE MAYWOOD, CALIFORNIA

PREPARED FOR: REPARED BY: U.S. Environmental Protection Agency JACOB & HEFNER ASSOCIATES 15375 BARRANCA PARKINAY, SUITE (U-101 RWME, CALFORMA 92618 PHONE: (949) 453-1045 Region IX San Francisco, California SCALE: AS SHOWN DATE: 06/13/07 AS BUILTS DRAWING DESIGNED: JS DRAWN: CPL E-1 CHECKED: JW

